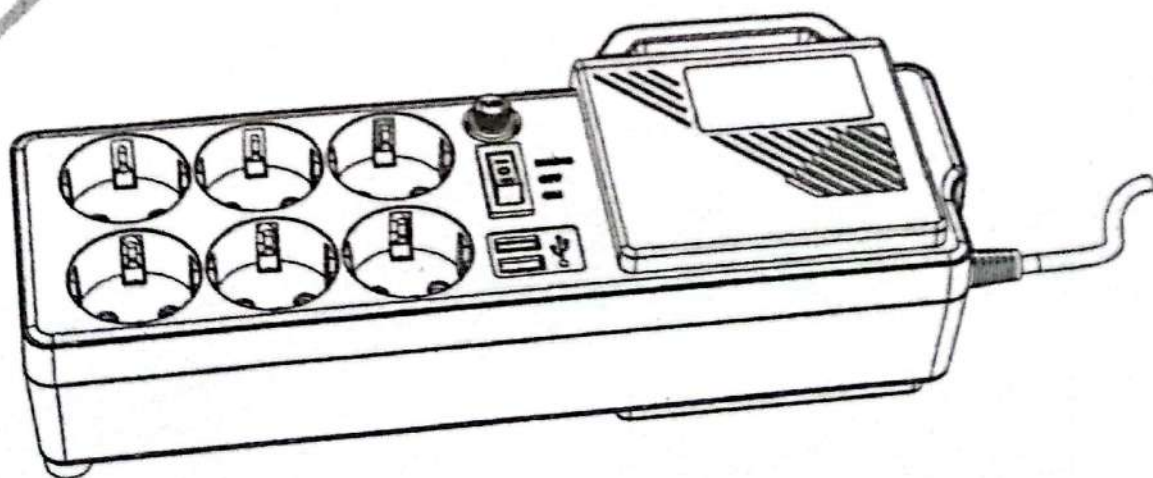


SAMOTO

SMART SOCKET AVR

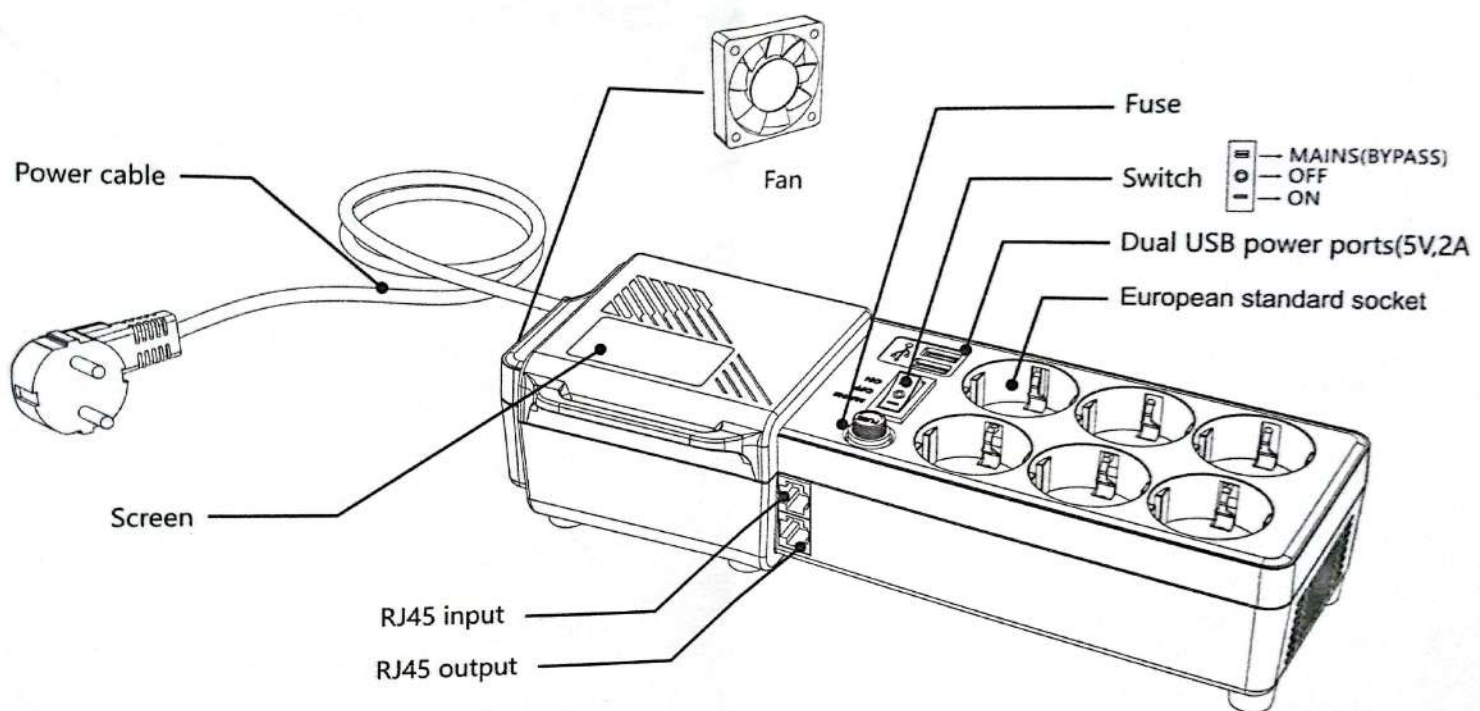
AVR95-500VA

AVR95-1000VA



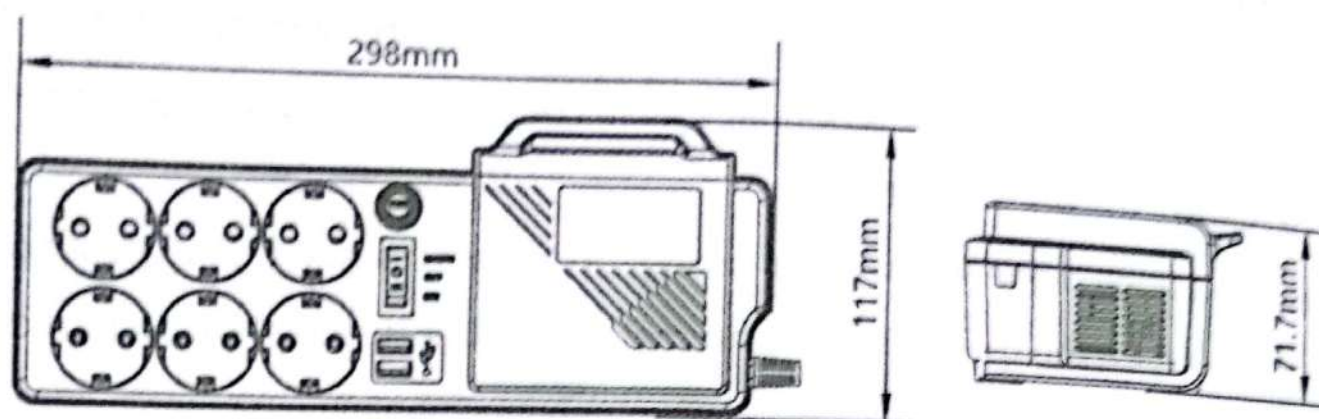
USER MANUAL

Product instruction



The product appearance is for reference only, if there is any update, please prevail in kind!

Product size



Product size: 298×117×71.7mm(length × width × height), as shown in the figure above;

Product specification

Name	Parameter	
Model no.	AVR95-500VA	AVR95-1000VA
Input voltage range	AC 95-270V	
Output voltage	AC 220V±10%	
Waveform loss	1.0~3.0% No additional waveform distortion	
Efficiency	> 92%	
Delay	Short delay: 5 seconds	
Temperature protection	125 degrees protection, 85 degrees recovery output	
Using environment	temperature -20~50°C	
	Relative humidity < 90%	
	Elevation < 4000m	
Insulation and voltage resistance	AC1500V, < 1mA	
IP Level	IP20	
Capacity	AVR500: 500VA/300W	AVR1000: 1000VA/500W

Applicable to the product

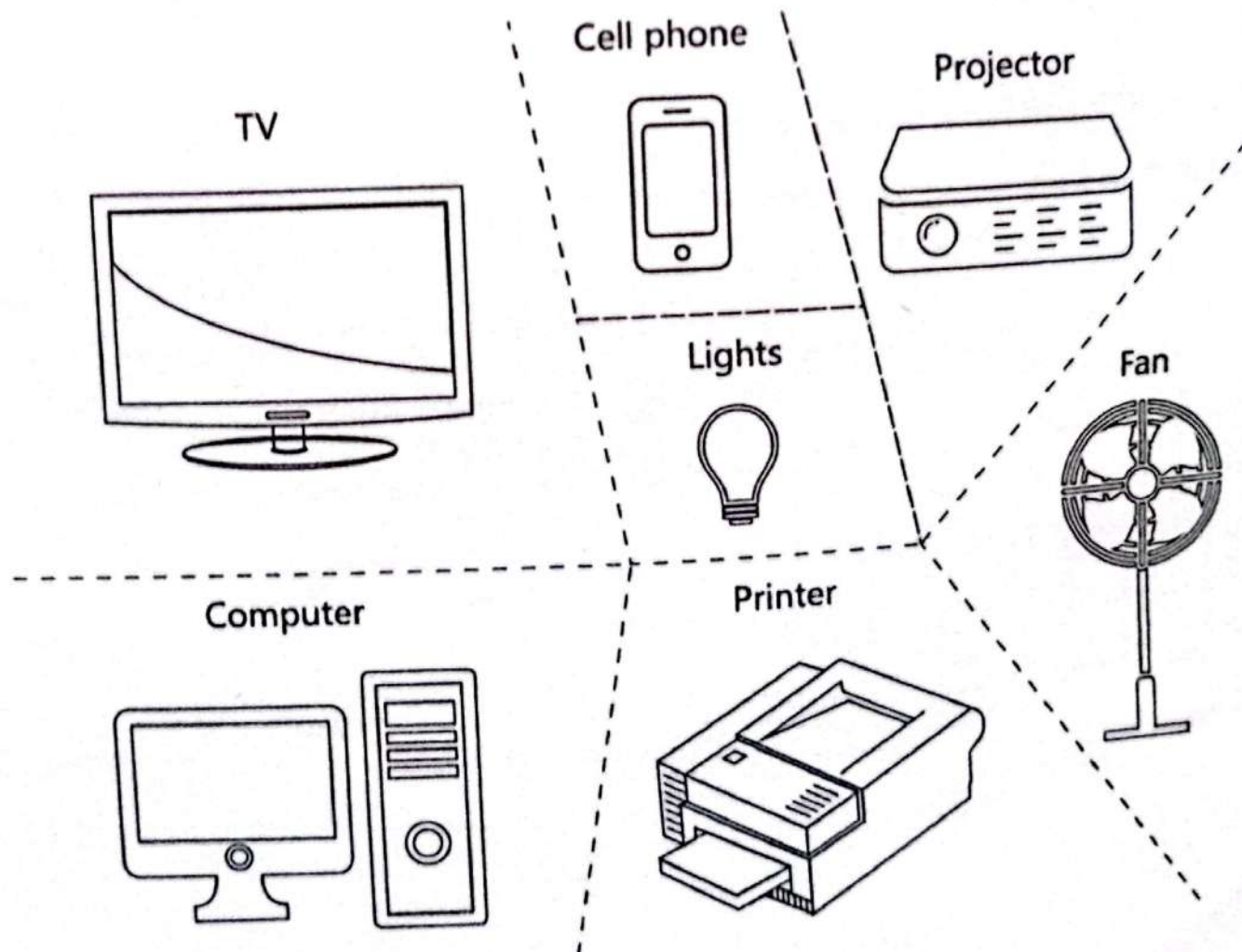
Application scenario: The product is suitable for electrical appliances in office areas, family areas, leisure areas, etc. According to the local power grid environment, different working modes of "voltage-adjusting or bypass" can be selected to switch to meet the requirements of different conditions.

Office area: including computer, printer, fax machine, landline phone, fan, lamp, cell phone and so on.

Home area: small household refrigerator, cold drink machine, electric shaver, small hair dryer, ventilation fan, air cooler, air dehumidifier, dish washer, etc.

Leisure area: TV, radio, VCR, camcorder, coffee machine, etc.

Entertainment occasions: small speakers, atmosphere lights, game consoles, miniature projector.



Attention

1. Before using the product, please read this user manual carefully and keep it properly for future reference.
2. In order to avoid the danger of electric shock, non-professional personnel should not open the enclosure.
3. Do not use the device in the environment of corrosive gases (such as oil fume and steam).
4. In the process of installation and operation, keep ventilation, do not cover, and keep a safe distance of more than 20 cm with other flammable materials or heating sources.
5. Ensure that it is used within the rated power range. Overload may lead to frequent protection or even damage.
6. The machine does not support series and parallel use.
7. If the display does not work or the equipment cannot adjust the voltage properly, it should be sent to a professional maintenance department.
8. After the end of use, first turn off the load of electrical power switch, and then turn off the voltage regulator power. Do not use the voltage regulator switch as a switch for all load appliances.

Product presentation

This product has good regulating performance, also has the advantages of small size, light weight, low distortion of output waveform, quick response, etc. The operation is safe and reliable, and the protection settings are complete. It is the best companion of small household appliances.

Product functions

1、 High precision dual USB power interface:

support 2 ports, 5V 2A output power, faster charging with more current;

2、 Integrated anti- Surge Protection Network Interface:

When the electrical circuit or communication line because of the external interference suddenly produces the peak current or voltage, in a very short time to conduct the shunt, so as to avoid the damage of the surge to the equipment;

3、 The fans controlled by temperature:

By monitoring the internal temperature of the regulator to start and stop the fan, the purpose of reducing the body temperature, increasing the power and prolonging the service life of the fan can be achieved;

4、 By pass functions:

In order to meet the user experience, when the input voltage is relatively stable, the users can choose to switch it to bypass state to achieve greater power output;

5、 Internal integrated low power consumption microprocessor:

In order to make the regulator work intelligent microprocessor control system, the whole circuit is more efficient and stable;

6. Over temperature & overload protection:

Through the sensor real-time monitoring transformer operating temperature, so as to achieve power release and fast response of over temperature and overload protection. On this basis, the function of thermal trip is added to prevent the transformer from overheating for a long time;

7. Output over voltage protection:

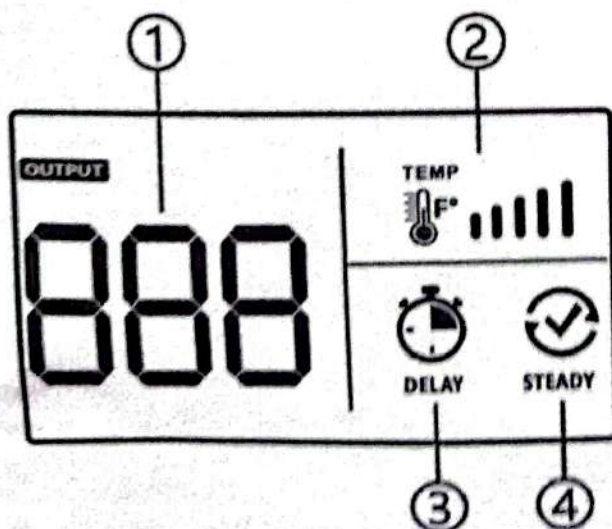
When the output voltage exceeds the design value, the output voltage can be cut off to protect the safety of electricity, no damage to the connected appliances;

8. Zero crossing technology:

The unique zero-crossing arc-extinction technology monitors the relay's working response state in real time to extend its service life, ensuring that each operation of the relay is faster and more stable;

9. Low power consumption screen:

The Indication function on the screen as below:

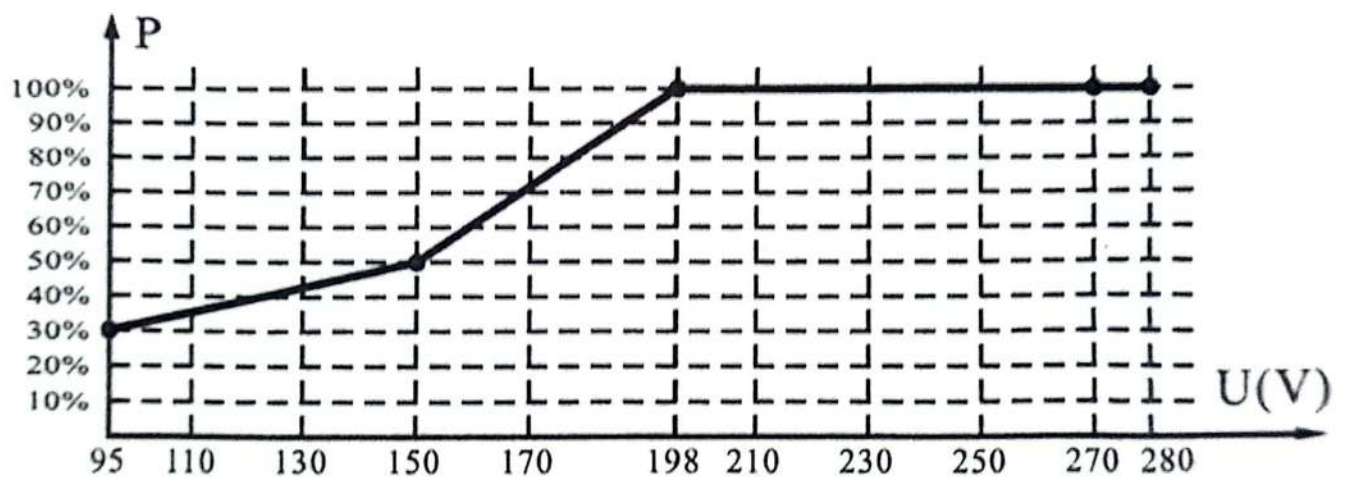


- ① Output voltage value;
- ② The temperature range of the first grid is 0-39 °C
The temperature range of the second grid is 40~59°C
The temperature range of the third grid is 60~90°C
The temperature range of the fourth grid is 91~129°C
The temperature range of the fifth grid is > 130°C
- ③ After power on, the system self-test state;
- ④ Normal working state;

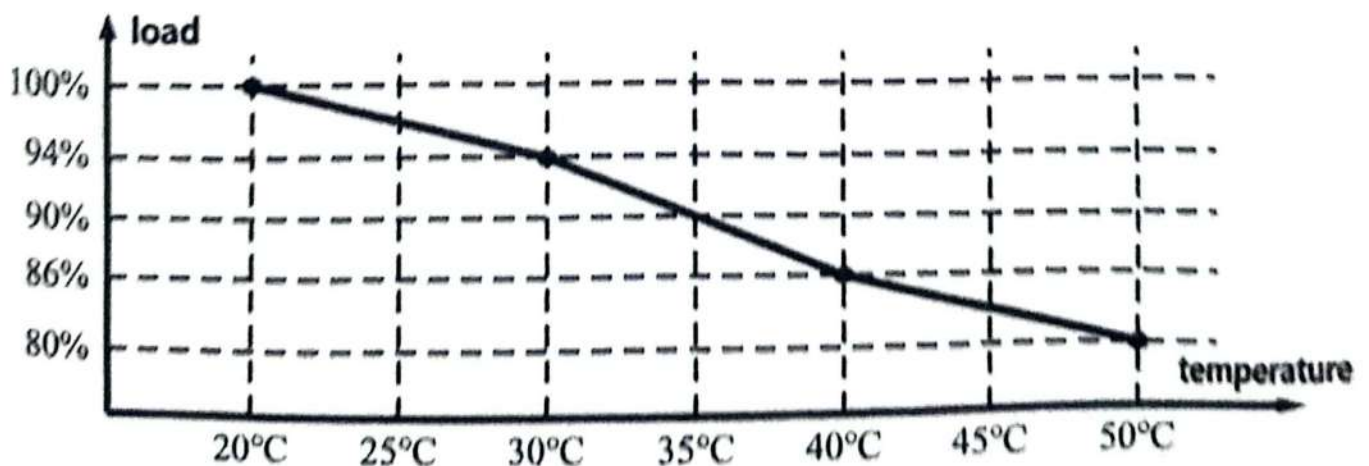


Notice

1. Before turning on the voltage regulator, please turn off the load device. After the output voltage of the regulator is normal, Please connect the electrical equipment in order of power rate, from high to low.
2. Select a working mode (voltage-adjusting or bypass) based on the local power grid voltage. When the grid voltage is normal, select the "bypass" mode to reduce power loss and prolong machine life.
3. The voltage-adjusting and bypass modes cannot work at the same time. When one mode is selected, the other mode is automatically turned off.
4. Voltage regulators should not be used under overload conditions. When the product is used in the low grid voltage area, please note that the effective usage will be reduced proportionally, and the correlation is shown below:



5. Please pay attention to the Relationship curve between temperature rise and power rate (The following temperatures are the values of the maximum temperature inside the regulator minus the ambient temperature):





Common Fault Symptoms

FAULT	PERFORMANCE	SOLUTION
no ouput	1. screen not work	1. Check whether the power cable is properly connected; 2. The voltage regulator does not work due to the short circuit of the load, and the load is energized; 3. The switch is not switched to "stable voltage" mode. 4. Long time overtemperature protection, shutdown after 20 minutes can be automatically recovered;
	2. display "---"	Overvoltage protection: The input voltage is too high and will recover automatically when it falls to the normal range;
	3. display "---" and "temperature full load"	Over temperature protection, waiting for the temperature to decrease;
	4. diplay "E-0、E-1、 E-2、 E-3"	Relay contact is poor, replace the relay;(Non-professionals are forbidden to disassemble)
	5. display "E-7" input sampling loss	The control panel is damaged and needs to be repaired; (non-professionals are forbidden to disassemble)
	6. display "E-8" Output sampling loss	
Cant load appliance	1. output low	Overload, reduce load;
	2. bad contact	Check that the plug is in good contact and loose;
	3. The input voltage is too low or too high	The input voltage is not within the range of the regulator;